	Application No.	Applicant(s)	
Notice of Allowability			
	10/566,334 Examiner	CHELLAPPA ET AL. Art Unit	
	MADIANNE I DADCETT	1717	
	MARIANNE L. PADGETT	1717	
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commu IGHTS. This application is so	this application. If not included nication will be mailed in due course. Th	
1. This communication is responsive to 6/21/11 & interview of	<u>9/12/11</u> .		
 An election was made by the applicant in response to a res requirement and election have been incorporated into this 		during the interview on; the restri	ction
3. X The allowed claim(s) is/are 1,3,8-10,12,16-18,21-23,25-29,	33-35,37,38,40-42 and 45-58		
4. ☐ Acknowledgment is made of a claim for foreign priority under a) ☐ All b) ☐ Some* c) ☐ None of the:).	
1. Certified copies of the priority documents have			
2. Certified copies of the priority documents have	• •		
3. Copies of the certified copies of the priority do	cuments have been received	in this national stage application from ti	ne
International Bureau (PCT Rule 17.2(a)). * Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN		a reply complying with the requirements	;
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.			
 A SUBSTITUTE OATH OR DECLARATION must be submi INFORMAL PATENT APPLICATION (PTO-152) which give 			
6. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.		
(a) 🔲 including changes required by the Notice of Draftspers	son's Patent Drawing Review	(PTO-948) attached	
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date	s Amendment / Comment or	in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			
 DEPOSIT OF and/or INFORMATION about the deposit of E attached Examiner's comment regarding REQUIREMENT FO 			
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5 D Notice of Inf	ormal Patent Application	
 Notice of Preferences Gled (FTO-932) Dotice of Draftperson's Patent Drawing Review (PTO-948) 		mmary (PTO-413),	
	Paper No./ľ	Mail Date <u>Attached</u> .	
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 	7. 🔼 Examiner's /	Amendment/Comment	
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's S	Statement of Reasons for Allowance	
- -	9. 🗌 Other		
/MARIANNE L. PADGETT/			
Primary Examiner, Art Unit 1717			

Application/Control Number: 10/566,334 Page 2

Art Unit: 1717

1. An **Examiner's Amendment** to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Matthew Hayden on 9/10/11 (message) & 9/12/2011.

In the specification:

in [0015], on line 5 after "oxygen", insert --(e.g. between about 10^{-2} atm and 10^{-5} atm)--; and on line 6 after "atmosphere", insert --(e.g. less than about 10% hydrogen by weight)--.

In [0073] (see 3/14/11 amendment to the specification), in the last line thereof, change "thereon." to --thereon, were localized sintering is of the coating and not an underlying support. --.

In the claims:

in claim 54, in line to after "comprises" insert -- conducting the sintering in N_2 by --; in line 3 after "minute" insert -- to a soak temperature of 850°C or 900°C or 950°C --; in line 4 change "soaking; and" to -- soaking for 1 hour; then --; and in line 5 change "per hour" to -- C per minute --.

2. The following is an examiner's statement of **Reasons for Allowance**: applicants' 6/21/11 amendment has corrected clarity and support issues, as set forth in sections 3 & 4 of the action mailed 3/22/11, with the objections in section 2 corrected by the amendments to the specification and the replacement sheet for the drawings. Furthermore, the additional limitations in the independent claims have differentiated over the previously applied prior art, as set forth in section 6 of the action mailed

3/22/11, with it particularly noted that the laser writing techniques as set forth in HU (2001/0016236 A1) in that rejection combines both evaporation and sintering into one step, however applicants' specification in [0083] provides teachings suggesting that not performing the two-step technique as now required (e.g. soft baking, defined in the specification & claims as removing carrier components, i.e. solvent, then sintering, where order is necessitated by actions of required in the wherein statements added in the 6/21/11 amendment) would disadvantageously give rise to pinholes & defects inside the coating. Furthermore, applicants' claims as amended now require the process & product to have a particular microstructure produced by the process, which is not found to be suggested by the prior art.

Page 3

Update of the search did not find any new art that reads on the claims as now written, however **Chellappa et al.** (7,922,781 B2) by overlapping inventors, is considered to be of interest as directed to a process that employs structures related to those claimed & produced in the presently claimed process.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

3. **Any inquiry** concerning this communication or earlier communications from the examiner should be directed to **Marianne L. Padgett** whose telephone number is (571) 272-1425. The examiner can normally be reached on M-F from about 9:00 a.m. to 5:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dah-Wei Yuan, can be reached at (571) 272-1295. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available

Application/Control Number: 10/566,334 Page 4

Art Unit: 1717

through Private PAIR only. For more information about the PAIR system, see http://pair-

direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

/Marianne L. Padgett/ Primary Examiner, Art Unit 1717

MLP/dictation software

9/12/11